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U.S.-German Tank Backs Disputed Pentagon System

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creasing use of the project-manasystem in the Defense Dertment's weapons - production terprises was one of several uses leading to last week's resnation of the chief and deputy ief of the Navy's Bureau of a

Chief Has Less Power

Their dislike of it was plainly ated. It gives to a single officer other than the bureau chief) the rime responsibility for pushing esearch, development and pro iction of some new weapon o

With that officer directly re ponsible to the Secretary of De ense and assured highest priority or his demands there is a dimin tion of the responsibility and a hority of the bureau chief; als with the project-manager's power o create his own staff of expert rom within the bureau there obvious lessening of th pureau's total resources nandling its own very large an ssential functions.

That is one side of the issu The other is that when an office of great competence and dete mination is given any such por ers, and freed of other oblig tions, he can concentrate on t job in hand and presumably do better and far more rapidly th if he has to fight his way throu countless standard office prac ces, wait for approval by several layers of authority and wait f authority to get materials ess tial to his progress or equally sential professional assistance.

Advantages Unmistakeable

In an era of great) complex and rapid technological develo ments the advantages of management syste project whatever its demerits, are unn takcable.

There is an impressive rec of achievement in the recent p and a clear intent to make use it in the future, particularly wigreat speed of development is auired.

Outstanding examples of great success in the Navy provided by the epochal develop ment of the nuclear powered su marine, largely because Adm. H. G. Rickover (a cap air then) had not only vast compo-characteristics of propulsion, fire tence pool duting but the large pour of notection, powers that project management tour and reliability. Rolling

ve him, and of the Polaris-mise similarly rushed to comple n at great speed under Rear lm. William F. Raborn, Jr.

Those two grand successes tend make the outsider think project - management with its highest priority claims for men d materials is so good that it ould be used universally.

The Bureau of Ships admirals oke for many others when they pinted out that these two rojects cut deep into the efficien y of several bureaus and that to nany high priorities are simply elf-defeating because they rul ito each other.

Nike Zeus Succeeded

The examples of Air Force suc cess with project managemen yould certainly include the Tita II-C, which has been outstanding hose in the Army would obvious y include the prolonged and com lex work on the Nike Zeus and ts successor Nike X , also the ight observation helicopter.

But for importance and nea perfection of method—largely because it involves both West Ge many and the United States (ar n all probability other NAT countries eventually)—one mus look at the complex and methodi al way in which these two cou trics' main battle tank of t 1970's is being developed fro scratch.

This is obviously a most in portant instrument for a futur conventional war, justifying great pains being taken with For two years there has been general knowledge of the ente prise, but it now is possib through the Army Material Co mand, to be specific about wh has been achieved thus far, a how, and with what clear pro-

High Hopes Evident.

That both West Germany the United States have high hope for this most scientifically dev oped instrument of convention warfare - preparations for wh proceed steadily even when Am ican public interest is conc trated on the wholly differ instruments of counter-insurge - is manifest. Hopes should h high, for these improvements o today's tanks are regarded as tain:

1. An "optimum" balance

Development of a very rscpower engine employing a w variable-compression ratio

inciple promising more than twice as much power as produced current diesel motors of like e and structure. This is a true antum jump. The German wing the cooperative team has a al engine of more conventional

3. United States backing of a mbined gun-missile as main ar-

far superior to anything in istence. German backing of a igh-velocity gun, with choice here (and in the motor) still to be determined.

4. Full agreement on the de-ign configuration of the ultimate

The aim has been, as always, t et into the new tank great mobi ity, great firepower and grea protection from enemy hits, bu manifestly the attaining of any hese factors to its maximum would conflict with attainment o he other two.

So the need has been to giv and take in such quantities as t assure the best available over-a result. Also to do this with suc foresight as to permit construc tion on the original design with minimum of design changes du ing the development and produc tion stage.

Interestingly, all of this habeen done on paper fed repeated ly into a computer. "Battles with "rubber" tanks have bee measured by computer to prove

This was made possible by the early selection of a program ma agement board perfectly balance between the two countries, and is sclection of a professional desig effectiveness study group work covering a full year.

Lockheed Chosen

Chosen by competition for that task was the Lockheed missil and space company, unconcerned with tanks but widely experience in the modern technique of math ematical appraisal of all facto through advanced use of compu-

A joint engineering agency a a joint design team got their p sonnel from the General Motors Corporation in this (which won by competition) a the Terman Development Corpor ation (set up by the West German Government as its contractor the tank).

Their work is carried on join in Germany during the des stage and will be carried on jo

1 in the United States during pilot building stage, but with b sets of nationals required to agree on each step, and with both re-porting at intervals to their surereding fall lightest are supplied to

gem to cause great delay. Actally the plan is on schedule, and the Americans at least are coninced that by getting agreement t every step there is a larger kelihood of reduced changes latr on — so that thus far the total pan of production time is delared to be normal.

No Political Differences

When it comes to tests, both he United States-built and the German-built tanks will be tested at home and abroad, to make ament (the Shillaligh) regarded sure that the agreed-upon isometric measurements have been met precisely.

Political differences thus have been zero. There have been technological troubles owing to different standards and practices, but these were largely met by creation of a multiple-engineer ing dictionary for mutual use.

The present United States choice for firepower is the dualthreat Shillalagh which can shoot either a shell or a missile. The Germans pin their hope on another high velocity gun, rather than on a missile combination, and have one nearly ready for consideration.

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